

APPENDIX-II

**DATA PROCESSING TABLES FOR
DISTRIBUTION & SELECTIVITY
DIAGRAMS**

Table D-1
Data for Construction of Distribution Diagrams for system:
B-H-Dmf+W at different temperatures
with anti solvent concentrations as a parameter.

20 0C					
B-H-Dmf At 0 % W		B-H-Dmf At 10 % W		B-H-Dmf At 20 % W	
D1	D2	D1	D2	D1	D2
0.05	0.025	0.28	0.700	0.020	0.200
0.10	0.080	0.07	0.245	0.060	0.435
0.12	0.100	0.24	0.625	0.110	0.600
0.17	0.127	0.17	0.44	0.290	0.450
0.23	0.170	0.200	0.532	0.200	0.785
30 0C					
B-H-Dmf At 0 % W		B-H-Dmf At 10 % W		B-H-Dmf At 20 % W	
D1	D2	D1	D2	D1	D2
0.05	0.015	0.05	0.26	0.03	0.170
0.08	0.042	0.14	0.46	0.077	0.390
0.10	0.080	0.24	0.69	0.087	0.430
0.042	0.018	0.02	0.13	0.205	0.710
0.02	0.010	0.45	0.75	0.146	0.570
40 0C					
B-H-Dmf At 0 % W		B-H-Dmf At 10 % W		B-H-Dmf At 20 % W	
D1	D2	D1	D2	D1	D2
0.105	0.052	0.160	0.205	0.02	0.31
0.140	0.125	0.255	0.415	0.04	0.51
0.160	0.130	0.355	0.640	0.06	0.66
0.122	0.088	0.550	0.815	0.09	0.78
0.097	0.075	0.452	0.727		

Table D-2
Data for Construction of Distribution Diagrams for system:
T-H-Dmf+W at different temperatures
with anti solvent concentrations as a parameter.

20 °C					
T-H-Dmf		T-H-Dmf		T-H-Dmf	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.095	0.090	-	-	0.020	0.270
0.160	0.170	-	-	0.040	0.435
0.205	0.205	-	-	0.085	0.650
0.180	0.180	-	-	0.100	0.795
30 °C					
At 0%w		At 10%w		At 20%w	
T-H-Dmf		T-H-Dmf		T-H-Dmf	
D1	D2	D1	D2	D1	D2
0.035	0.020	0.080	0.180	0.075	0.450
0.825	0.050	0.130	0.270	0.100	0.490
0.130	0.100	0.150	0.370	0.110	0.610
0.150	0.130	0.250	0.530	0.150	0.740
0.190	0.180	0.370	0.700	0.130	0.670
40 °C					
T-H-Dmf		T-H-Dmf		T-H-Dmf	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.120	0.085	0.140	0.520	0.030	1.240
0.100	0.070	0.310	0.695	0.080	0.465
0.060	0.040	0.510	0.860	0.250	0.740
0.075	0.060	0.110	0.310	0.050	0.370
0.110	0.077	0.225	0.607	0.160	0.620

Table D-3
Distribution for system: X-H-Dmf+W at different temperatures
with anti solvent concentrations as a parameter.

20 °C					
X-H-Dmf		X-H-Dmf		X-H-Dmf	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.029	0.019	0.012	0.082	0.015	0.359
0.097	0.089	0.055	0.365	0.05	0.705
0.144	0.162	0.125	0.660	0.032	0.532
0.063	0.054	0.033	0.223	0.041	0.618
0.12	0.1	0.090	0.512	0.023	0.44

30 °C					
X-H-Dmf		X-H-Dmf		X-H-Dmf	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.097	0.048	0.05	0.21	0.012	0.215
0.127	0.101	0.085	0.35	0.029	0.375
0.168	0.157	0.165	0.57	0.047	0.535
0.143	0.12	0.192	0.62	0.057	0.63
0.153	0.14	0.125	0.46	0.13	0.795

40 °C					
X-H-Dmf		X-H-Dmf		X-H-Dmf	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
-	-	0.18	0.635	0.041	0.291
-	-	0.05	0.225	0.062	0.417
-	-	0.12	0.41	0.082	0.615
-	-	0.135	0.52	0.072	0.516
-	-	0.165	0.545	0.051	0.354

Table -D-4
Data for Constraction of Distribution Diagrams for system:
B-Hep-Dmf-W at different anti solvent concentrations
with anti solvent concentrations as a parameter.

20 °C					
B-Hep-Dmf-W At 0%w		B-Hep-Dmf-W At 10%w		B-Hep-Dmf-W At 20%w	
D1	D2	D1	D2	D1	D2
0.02	0.022	0.135	0.337	-	-
0.03	0.037	0.095	0.2	-	-
0.05	0.078	0.25	0.565	-	-
0.04	0.057	0.175	0.475	-	-
0.045	0.067	0.21	0.525	-	-
30 °C					
B-Hep-Dmf-W At 0%w		B-Hep-Dmf-W At 10%w		B-Hep-Dmf-W At 20%w	
D1	D2	D1	D2	D1	D2
0.125	0.153	0.14	0.241	0.147	0.547
0.055	0.045	0.195	0.425	0.055	0.24
0.09	0.08	0.305	0.512	0.115	0.435
0.02	0.01	0.167	0.333	0.18	0.66
0.038	0.027	0.25	0.468	0.31	0.72
40 °C					
B-Hep-Dmf-W At 0%w		B-Hep-Dmf-W At 10%w		B-Hep-Dmf-W At 20%w	
D1	D2	D1	D2	D1	D2
0.03	0.02	0.105	0.17	0.005	0.38
0.05	0.03	0.23	0.375	0.23	0.65
0.08	0.042	0.37	0.572	0.34	0.8
0.09	0.05	0.167	0.272	0.152	0.515
0.13	0.065	0.3	0.473	0.285	0.725

Table D-5
Data for Construction of Distribution Diagrams for system:
B-O-Dmf+W at different temperatures
with anti solvent concentrations as a parameter.

B-Oct-Dmf		20 0C B-Oct-Dmf		B-Oct-Dmf	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.039	0.040	0.125	0.290	0.088	0.445
0.095	0.100	0.075	0.205	0.021	0.150
0.11	0.180	0.050	0.170	0.037	0.250
0.18	0.236	0.100	0.240	0.140	0.640
0.201	0.290	0.150	0.338	0.220	0.750
0.235	0.338				
B-Oct-Dmf		30 0C B-Oct-Dmf		B-Oct-Dmf	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.127	0.12	0.075	0.167	0.07	0.345
0.165	0.145	0.128	0.258	0.112	0.521
0.19	0.208	0.178	0.344	0.2	0.721
0.212	0.25	0.274	0.497	0.09	0.433
0.235	0.298	0.32	0.585	0.156	0.623
B-Oct-Dmf		40 0C B-Oct-Dmf		B-Oct-Dmf	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.095	0.075	0.11	0.11	0.05	0.118
0.108	0.083	0.17	0.2	0.075	0.203
0.174	0.145	0.3	0.31	0.125	0.319
0.192	0.16	0.41	0.42	0.14	0.364
0.24	0.24	0.51	0.52	0.1	0.261

Table D-6
Data for Construction of Distribution Diagrams for system:
B-H-Dmso+W at different temperatures
with anti solvent concentrations as a parameter.

20 °C					
B-H-Dmso At 0%w		B-H-Dmso At 10%w		B-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.180	0.230	0.03	0.2	0.200	0.475
0.220	0.330	0.13	0.35	0.010	0.245
0.240	0.415	0.12	0.485	0.050	0.770
0.060	0.450	0.36	0.61	0.065	0.890
0.310	0.510	0.22	0.815		
0.230	0.360				
30 °C					
B-H-Dmso At 0%w		B-H-Dmso At 10%w		B-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.208	0.25	0.050	0.165	0.004	0.135
0.2005	0.38	0.087	0.302	0.006	0.257
0.296	0.47	0.115	0.405	0.017	0.465
0.475	0.795	0.150	0.555	0.022	0.672
		0.175	0.670	0.012	0.360
		0.100	0.360		
40 °C					
B-H-Dmso At 0%w		B-H-Dmso At 10%w		B-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.075	0.15	0.105	0.345	0.013	0.143
0.16	0.266	0.180	0.495	0.023	0.355
0.255	0.33	0.150	0.422	0.092	0.503
0.345	0.38	0.060	0.150	0.006	0.072
		0.237	0.565	0.018	0.250

Table - D-7
Data for Constraction of Distribution Diagrams for system:
T-H-Dmso+W at different temperatures
with anti solvent concentrations as a parameter.

20 °C					
T-H-Dmso At 0%w		T-H-Dmso At 10%w		T-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.130	0.270	0.075	0.600	0.010	0.290
0.250	0.570	0.095	0.680	0.020	0.650
0.305	0.560	0.120	0.820	0.022	0.695
0.180	0.430	0.050	0.490	0.035	0.840
0.165	0.350	0.035	0.370	0.015	0.470
0.218	0.500				
30 °C					
T-H-Dmso At 0%w		T-H-Dmso At 10%w		T-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.165	0.280	0.043	0.230	0.008	0.230
0.105	0.120	0.050	0.630	0.015	0.440
0.234	0.470	0.067	0.430	0.020	0.660
0.120	0.162	0.150	0.835	0.035	0.840
0.145	0.240	0.130	0.730	0.011	0.774
0.185	0.320			0.017	0.56
40 °C					
T-H-Dmso At 0%w		T-H-Dmso At 10%w		T-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.220	0.250	0.097	0.420	0.026	0.235
0.255	0.350	0.140	0.580	0.043	0.450
0.300	0.455	0.213	0.820	0.062	0.630
0.330	0.510	0.120	0.510	0.102	0.830
0.233	0.308	0.176	0.710	0.036	0.342
0.275	0.405				

Table D-8
Data for Construction of Distribution Diagrams for system:
X-H-Dmso+W at different temperatures
with anti solvent concentrations as a parameter.

20 °C					
X-H-Dmso At 0%w		X-H-Dmso At 10%w		X-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.007	0.420	0.001	0.430	0.001	0.490
0.020	0.545	0.002	0.585	0.001	0.645
0.040	0.710	0.002	0.605	0.002	0.790
0.024	0.590	0.003	0.710	0.003	0.900
0.029	0.675	0.004	0.810	0.001	0.340
0.026	0.645				
30 °C					
X-H-Dmso At 0%w		X-H-Dmso At 10%w		X-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.085	0.380	0.007	0.460	0.001	0.315
0.100	0.600	0.010	0.470	0.002	0.572
0.117	0.645	0.015	0.665	0.035	0.740
0.067	0.325	0.019	0.767	0.002	0.443
0.092	0.490	0.006	0.310	0.003	0.656
40 °C					
X-H-Dmso At 0%w		X-H-Dmso At 10%w		X-H-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.106	0.194	0.017	0.050	0.014	0.065
0.125	0.235	0.025	0.086	0.018	0.100
0.140	0.295	0.040	0.180	0.023	0.165
0.160	0.350	0.021	0.068	0.016	0.082
0.192	0.475	0.032	0.133	0.020	0.130
0.180	0.410				

Table D-9
Data for Construction of Distribution Diagrams for system:
B-Hep-Dmso+W at different temperatures
with anti solvent concentrations as a parameter.

20 °C					
B-Hep-Dmso		B-Hep-Dmso		B-Hep-Dmso	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.120	0.230	0.05	0.15	0.022	0.070
0.179	0.300	0.61	0.26	0.040	0.200
0.140	0.275	0.11	0.37	0.052	0.300
0.206	0.427	0.17	0.48	0.065	0.445
0.239	0.490	0.25	0.59	0.075	0.521
		0.29	0.66	0.058	0.370
30 °C					
B-Hep-Dmso		B-Hep-Dmso		B-Hep-Dmso	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.130	0.280	0.058	0.175	0.020	0.062
0.167	0.315	0.110	0.322	0.040	0.170
0.185	0.360	0.160	0.425	0.070	0.280
0.210	0.430	0.200	0.605	0.110	0.458
0.275	0.500	0.230	0.681	0.160	0.637
0.310	0.525				
40 °C					
B-Hep-Dmso		B-Hep-Dmso		B-Hep-Dmso	
At 0%w		At 10%w		At 20%w	
D1	D2	D1	D2	D1	D2
0.140	0.205	0.055	0.075	0.009	0.126
0.175	0.300	0.090	0.165	0.050	0.080
0.200	0.430	0.185	0.405	0.080	0.190
0.300	0.520	0.305	0.667	0.150	0.390
0.260	0.470	0.245	0.536	0.210	0.570
0.159	0.255			0.180	0.480

Table D-10
Data for Construction of Distribution Diagrams for system:
B-Oct-Dmso+W at different temperatures
with anti solvent concentrations as a parameter.

20 °C					
B-Oct-Dmso At 0%w		B-Oct-Dmso At 10%w		B-Oct-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.010	0.190	0.050	0.495	0.041	0.760
0.028	0.293	0.085	0.590	0.011	0.570
0.060	0.420	0.170	0.670	0.028	0.710
0.160	0.435	0.340	0.780	0.055	0.810
0.315	0.530	0.067	0.540	0.019	0.640
0.037	0.335				
30 °C					
B-Oct-Dmso At 0%w		B-Oct-Dmso At 10%w		B-Oct-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.030	0.310	0.200	0.275	0.013	0.430
0.160	0.373	0.115	0.520	0.030	0.550
0.560	0.315	0.300	0.665	0.045	0.640
0.230	0.450	0.400	0.800	0.085	0.850
0.306	0.525	0.207	0.592	0.021	0.490
0.010	0.235				
40 °C					
B-Oct-Dmso At 0%w		B-Oct-Dmso At 10%w		B-Oct-Dmso At 20%w	
D1	D2	D1	D2	D1	D2
0.053	0.247	0.017	0.186	0.20	0.42
0.182	0.440	0.194	0.565	0.38	0.54
0.365	0.522	0.070	0.365	0.10	0.71
0.030	0.195	0.043	0.272	0.70	0.83
0.015	0.315	0.132	0.465		
0.130	0.355				

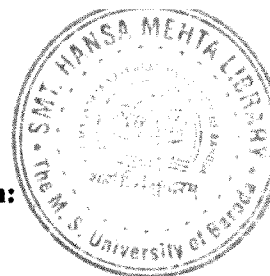


Table -D-11
Data for Construction of Distribution Diagrams for system:
B-H-Dmf-W at different anti solvent concentrations
with temperatures as a parameter.

At 0%w					
B-H-Dmf-W		B-H-Dmf-W		B-H-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.050	0.025	0.050	0.015	0.105	0.052
0.100	0.080	0.080	0.042	0.140	0.125
0.120	0.100	0.100	0.080	0.160	0.130
0.170	0.127	0.042	0.018	0.122	0.088
0.230	0.170	0.022	0.010	0.097	0.075
-	-	0.060	0.042	-	-
At 10%w					
B-H-Dmf-W		B-H-Dmf-W		B-H-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.280	0.700	0.050	0.260	0.160	0.205
0.070	0.245	0.140	0.460	0.255	0.415
0.240	0.625	0.240	0.690	0.355	0.640
0.170	0.440	0.020	0.130	0.550	0.815
0.200	0.532	0.450	0.750	0.452	0.727
At 20%w					
B-H-Dmf-W		B-H-Dmf-W		B-H-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.020	0.200	0.030	0.170	0.018	0.308
0.060	0.435	0.077	0.390	0.038	0.510
0.110	0.600	0.087	0.430	0.062	0.655
0.290	0.450	0.205	0.710	0.090	0.775
0.200	0.785	0.146	0.570	-	-

Table -D12
Data for Concentration of Distribution Diagrams for system:
T-H-Dmf-W at different anti solvent concentrations
with temperature as a parameter.

At 0%w					
T-H-Dmf-W		T-H-Dmf-W		T-H-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.095	0.900	0.035	0.020	0.120	0.085
0.160	0.170	0.825	0.050	0.100	0.070
0.205	0.205	0.130	0.100	0.060	0.040
0.180	0.180	0.150	0.130	0.075	0.060
0.128	0.129	0.190	0.180	0.110	0.077

At 10%w					
T-H-Dmf-W		T-H-Dmf-W		T-H-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
-	-	0.080	0.180	0.140	0.520
-	-	0.130	0.270	0.310	0.695
-	-	0.150	0.370	0.510	0.860
-	-	0.250	0.530	0.110	0.310
-	-	0.370	0.700	0.225	0.607

At 20%w					
T-H-Dmf-W		T-H-Dmf-W		T-H-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.020	0.270	0.075	0.450	0.030	1.240
0.040	0.435	0.100	0.490	0.080	0.465
0.085	0.650	0.110	0.610	0.250	0.740
0.100	0.795	0.150	0.740	0.050	0.370
0.062	0.542	0.130	0.670	0.160	0.620

Table D-13
Data for Construction of Distribution Diagrams for system:
X-H-Dmf+W at different anti solvent concentrations
with temperatures as a parameter.

At 0%w					
X-H-Dmf		X-H-Dmf		X-H-Dmf	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.029	0.019	0.097	0.048	-	-
0.097	0.089	0.127	0.101	-	-
0.144	0.162	0.168	0.157	-	-
0.063	0.054	0.143	0.120	-	-
0.120	0.100	0.153	0.140	-	-
At 10%w					
X-H-Dmf		X-H-Dmf		X-H-Dmf	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.012	0.082	0.050	0.210	0.180	0.635
0.055	0.365	0.085	0.350	0.050	0.225
0.125	0.660	0.165	0.570	0.120	0.410
0.033	0.223	0.192	0.620	0.135	0.520
0.090	0.512	0.125	0.460	0.165	0.545
At 20%w					
X-H-Dmf		X-H-Dmf		X-H-Dmf	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.015	0.359	0.012	0.215	0.041	0.291
0.050	0.705	0.029	0.375	0.062	0.417
0.032	0.532	0.047	0.535	0.082	0.615
0.041	0.618	0.057	0.630	0.072	0.516
0.023	0.440	0.130	0.795	0.051	0.354

Table -D-14
Data for Constraction of Distribution Diagrams for system:
B-Hep-Dmf-W at different anti solvent concentrations
with temperature as a parameter.

At 0%w					
B-Hep-Dmf-W		B-Hep-Dmf-W		B-Hep-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.020	0.022	0.125	0.153	0.030	0.020
0.030	0.037	0.055	0.045	0.050	0.030
0.050	0.078	0.090	0.080	0.080	0.042
0.040	0.057	0.020	0.010	0.090	0.050
0.045	0.067	0.038	0.027	0.130	0.065

At 10%w					
B-Hep-Dmf-W		B-Hep-Dmf-W		B-Hep-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.135	0.337	0.140	0.241	0.105	0.170
0.095	0.200	0.195	0.425	0.230	0.375
0.250	0.565	0.305	0.512	0.370	0.572
0.175	0.475	0.167	0.333	0.167	0.272
0.210	0.525	0.250	0.468	0.300	0.473

At 20%w					
B-Hep-Dmf-W		B-Hep-Dmf-W		B-Hep-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
-	-	0.147	0.547	0.005	0.380
-	-	0.055	0.240	0.230	0.650
-	-	0.115	0.435	0.340	0.800
-	-	0.180	0.660	0.152	0.515
-	-	0.310	0.720	0.285	0.725

Table -D-15
Data for Construction of Distribution Diagrams for system:
B-Oct-Dmf-W at different anti solvent concentrations
with temperature as a parameter.

At 0%w					
B-Oct-Dmf-W		B-Oct-Dmf-W		B-Oct-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.039	0.040	0.127	0.12	0.095	0.075
0.095	0.100	0.165	0.145	0.108	0.083
0.11	0.180	0.19	0.208	0.174	0.145
0.18	0.236	0.212	0.25	0.192	0.16
0.201	0.290	0.235	0.298	0.24	0.24
0.235	0.338				
At 10%w					
B-Oct-Dmf-W		B-Oct-Dmf-W		B-Oct-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.125	0.290	0.075	0.167	0.11	0.11
0.075	0.205	0.128	0.258	0.17	0.2
0.050	0.170	0.178	0.344	0.3	0.31
0.100	0.240	0.274	0.497	0.41	0.42
0.150	0.338	0.32	0.585	0.51	0.52
At 20%w					
B-Oct-Dmf-W		B-Oct-Dmf-W		B-Oct-Dmf-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.088	0.445	0.07	0.345	0.05	0.118
0.021	0.150	0.112	0.521	0.075	0.203
0.037	0.250	0.2	0.721	0.125	0.319
0.140	0.640	0.09	0.433	0.14	0.364
0.220	0.750	0.156	0.623	0.1	0.261

Table -D-16
Data for Construction of Distribution Diagrams for system:
B-H-Dmso-W at different anti solvent concentrations
with temperature as a parameter.

At 0%w					
B-H-Dmso-W		B-H-Dmso-W		B-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.180	0.230	0.208	0.250	0.750	0.150
0.220	0.330	0.200	0.380	0.160	0.260
0.240	0.415	0.296	0.470	0.250	0.330
0.060	0.450	0.475	0.790	0.340	0.380
0.310	0.510	-	-	-	-
At 10%w					
B-H-Dmso-W		B-H-Dmso-W		B-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.300	0.200	0.050	0.165	0.105	0.345
0.130	0.350	0.087	0.302	0.180	0.495
0.120	0.480	0.115	0.405	0.150	0.422
0.360	0.610	0.150	0.555	0.060	0.150
0.510	0.810	0.175	0.670	0.237	0.565
-	-	0.100	0.360	-	-
At 20%w					
B-H-Dmso-W		B-H-Dmso-W		B-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.200	0.475	0.004	0.135	0.013	0.143
0.010	0.245	0.006	0.257	0.023	0.355
0.050	0.770	0.017	0.465	0.092	0.503
0.065	0.890	0.022	0.672	0.006	0.072
-	-	0.012	0.360	0.018	0.250

Table -D17
Data for Construction of Distribution Diagrams for system:
T-H-Dmso-W at different anti solvent concentrations
with temperature as a parameter.

At 0%w					
T-H-Dmso-W		T-H-Dmso-W		T-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.130	0.270	0.165	0.280	0.220	0.250
0.250	0.570	0.105	0.120	0.255	0.350
0.305	0.560	0.234	0.470	0.300	0.455
0.180	0.430	0.120	0.162	0.330	0.510
0.165	0.350	0.145	0.240	0.233	0.308
0.218	0.500	0.185	0.320	0.275	0.405

At 10%w					
T-H-Dmso-W		T-H-Dmso-W		T-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.075	0.600	0.043	0.230	0.097	0.420
0.095	0.680	0.050	0.630	0.140	0.580
0.120	0.820	0.067	0.430	0.213	0.820
0.050	0.490	0.150	0.835	0.120	0.510
0.035	0.370	0.130	0.730	0.176	0.710

At 20%w					
T-H-Dmso-W		T-H-Dmso-W		T-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.010	0.290	0.008	0.230	0.026	0.235
0.020	0.650	0.015	0.440	0.043	0.450
0.022	0.695	0.020	0.660	0.062	0.630
0.035	0.840	0.035	0.840	0.102	0.830
0.015	0.470	0.011	0.774	0.036	0.342
-	-	0.017	0.560	-	-

Table -D-18
Data for Construction of Distribution Diagrams for system:
X-H-Dmso-W at different anti solvent concentrations
with temperature as a parameter.

At 0%w					
X-H-Dmso-W		X-H-Dmso-W		X-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.007	0.420	0.085	0.380	0.106	0.194
0.020	0.545	0.100	0.600	0.125	0.235
0.040	0.710	0.117	0.645	0.140	0.295
0.024	0.590	0.067	0.325	0.160	0.350
0.029	0.675	0.092	0.490	0.192	0.475
0.026	0.645	-	-	0.180	0.410

At 10%w					
X-H-Dmso-W		X-H-Dmso-W		X-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.001	0.430	0.007	0.460	0.017	0.050
0.002	0.585	0.010	0.470	0.025	0.086
0.002	0.605	0.015	0.665	0.040	0.180
0.003	0.710	0.019	0.767	0.021	0.068
0.004	0.810	0.006	0.310	0.032	0.133

At 20%w					
X-H-Dmso-W		X-H-Dmso-W		X-H-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.001	0.490	0.001	0.315	0.014	0.065
0.001	0.645	0.002	0.572	0.018	0.100
0.002	0.790	0.035	0.740	0.023	0.165
0.003	0.900	0.002	0.443	0.016	0.082
0.001	0.340	0.003	0.656	0.020	0.130

Table D-19
Data for Construction of Distribution Diagrams for system:
B-Hep-Dmso+W at different anti solvent concentrations
with temperatures as a parameter.

At 0%w					
B-Hep-Dmso 20°C		B-Hep-Dmso 30°C		B-Hep-Dmso 40°C	
D1	D2	D1	D2	D1	D2
0.120	0.230	0.130	0.280	0.140	0.205
0.179	0.300	0.167	0.315	0.175	0.300
0.140	0.275	0.185	0.360	0.200	0.430
0.206	0.427	0.210	0.430	0.300	0.520
0.239	0.490	0.275	0.500	0.260	0.470
		0.310	0.525	0.159	0.255
At 10%w					
B-Hep-Dmso 20 °C		B-Hep-Dmso 30 °C		B-Hep-Dmso 40 °C	
D1	D2	D1	D2	D1	D2
0.05	0.15	0.058	0.175	0.055	0.075
0.61	0.26	0.110	0.322	0.090	0.165
0.11	0.37	0.160	0.425	0.185	0.405
0.17	0.48	0.200	0.605	0.305	0.667
0.25	0.59	0.230	0.681	0.245	0.536
0.29	0.66				
0.58	0.17				
At 20%w					
B-Hep-Dmso 20 °C		B-Hep-Dmso 30 °C		B-Hep-Dmso 40 °C	
D1	D2	D1	D2	D1	D2
0.022	0.070	0.020	0.062	0.009	0.126
0.040	0.200	0.040	0.170	0.050	0.080
0.052	0.300	0.070	0.280	0.080	0.190
0.065	0.445	0.110	0.458	0.150	0.390
0.075	0.521	0.160	0.637	0.210	0.570
0.058	0.370			0.180	0.480

Table -D-20
Data for Construction of Distribution Diagrams for system:
B-Oct-Dmso-W-W at different anti solvent concentrations
with temperatures as a parameter.

At 0%w					
B-Oct-Dmso-W		B-Oct-Dmso-W		B-Oct-Dmso-W	
20		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.010	0.190	0.030	0.310	0.053	0.247
0.028	0.293	0.160	0.373	0.182	0.440
0.060	0.420	0.560	0.315	0.365	0.522
0.160	0.435	0.230	0.450	0.030	0.195
0.315	0.530	0.306	0.525	0.015	0.315
0.037	0.335	0.010	0.235	0.130	0.355

At 10%w					
B-Oct-Dmso-W		B-Oct-Dmso-W		B-Oct-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.050	0.495	0.200	0.275	0.017	0.186
0.085	0.590	0.115	0.520	0.194	0.565
0.170	0.670	0.300	0.665	0.070	0.365
0.340	0.780	0.400	0.800	0.043	0.272
0.067	0.540	0.207	0.592	0.132	0.465

At 20%w					
B-Oct-Dmso-W		B-Oct-Dmso-W		B-Oct-Dmso-W	
20 °C		30 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.041	0.760	0.013	0.430	0.020	0.420
0.011	0.570	0.030	0.550	0.030	0.540
0.028	0.710	0.045	0.640	0.100	0.710
0.055	0.810	0.085	0.850	0.070	0.830
0.019	0.640	0.021	0.490		

Table D-21
Data for Construction of Distribution Diagrams for system:
B-T-X-100%Dmf+0%W at different temperatures
with Molecular weight of Aromatic as a parameter.

20 °C					
B-H-Dmf At 0%w		T-H-Dmf At 0%w		X-H-Dmf At 0%w	
D1	D2	D1	D2	D1	D2
0.05	0.025	0.095	0.9	0.029	0.019
0.10	0.080	0.16	0.17	0.097	0.089
0.12	0.100	0.205	0.205	0.144	0.162
0.17	0.127	0.18	0.18	0.063	0.054
0.23	0.170	0.128	0.129	0.12	0.1

30 °C					
B-H-Dmf At 0%w		T-H-Dmf At 0%w		X-H-Dmf At 0%w	
D1	D2	D1	D2	D1	D2
0.05	0.015	0.035	0.02	0.097	0.048
0.08	0.042	0.825	0.05	0.127	0.101
0.10	0.080	0.13	0.1	0.168	0.157
0.042	0.018	0.15	0.13	0.143	0.12
0.02	0.010	0.19	0.18	0.153	0.14
0.06	0.042				

40 °C					
B-H-Dmf At 0%w		T-H-Dmf At 0%w		X-H-Dmf At 0%w	
D1	D2	D1	D2	D1	D2
0.105	0.052	0.160	0.205	0.02	0.31
0.140	0.125	0.255	0.415	0.04	0.51
0.160	0.130	0.355	0.640	0.06	0.66
0.122	0.088	0.550	0.815	0.09	0.78
0.097	0.075	0.452	0.727		

Table D 22
Data for Construction of Distribution Diagrams for system:
B-T-X-90%Dmf+10%W at different temperatures
with Molecular weight of Aromatic as a parameter.

20 °C					
B-H-Dmf At 10%w		T-H-Dmf At 10%w		X-H-Dmf At 10%w	
D1	D2	D1	D2	D1	D2
0.28	0.7	-	-	0.012	0.082
0.07	0.245	-	-	0.055	0.365
0.24	0.625	-	-	0.125	0.66
0.17	0.44	-	-	0.033	0.223
0.2	0.532	-	-	0.09	0.512

30 °C					
B-H-Dmf At 10%w		T-H-Dmf At 10%w		X-H-Dmf At 10%w	
D1	D2	D1	D2	D1	D2
0.05	0.265	0.08	0.18	0.05	0.21
0.19	0.467	0.13	0.27	0.085	0.35
0.24	0.697	0.15	0.37	0.165	0.57
0.027	0.135	0.25	0.53	0.192	0.62
0.452	0.753	0.37	0.7	0.125	0.46

40 °C					
B-H-Dmf At 10%w		T-H-Dmf At 10%w		X-H-Dmf At 10%w	
D1	D2	D1	D2	D1	D2
0.16	0.205	0.14	0.52	0.18	0.635
0.255	0.415	0.31	0.695	0.05	0.225
0.355	0.64	0.51	0.86	0.12	0.41
0.55	0.815	0.11	0.31	0.135	0.52
0.452	0.727	0.225	0.607	0.165	0.545

Table-D- 23
Data for Construction of Distribution Diagrams for system:
B-T-X-80%Dmf+20%W at different temperatures
with Molecular weight of Aromatic as a parameter.

20 °C					
B-H-Dmf At 20%W		T-H-Dmf At 20%W		X-H-Dmf At 20%W	
D1	D2	D1	D2	D1	D2
0.02	0.2	0.02	0.27	0.015	0.359
0.06	0.435	0.04	0.435	0.05	0.705
0.11	0.6	0.085	0.65	0.032	0.532
0.29	0.45	0.1	0.795	0.041	0.618
0.2	0.785	0.062	0.542	0.023	0.44
30 °C					
B-H-Dmf At 20%W		T-H-Dmf At 20%W		X-H-Dmf At 20%W	
D1	D2	D1	D2	D1	D2
0.03	0.17	0.075	0.45	0.012	0.215
0.077	0.39	0.1	0.49	0.029	0.375
0.087	0.43	0.11	0.61	0.047	0.535
0.205	0.71	0.15	0.74	0.057	0.63
0.146	0.57	0.13	0.67	0.13	0.795
40 °C					
B-H-Dmf At 20%W		T-H-Dmf At 20%W		X-H-Dmf At 20%W	
D1	D2	D1	D2	D1	D2
0.02	0.31	0.03	1.24	0.041	0.291
0.04	0.51	0.08	0.465	0.062	0.417
0.06	0.66	0.25	0.74	0.082	0.615
0.09	0.78	0.05	0.37	0.072	0.516
		0.16	0.62	0.051	0.354

Table. - D -24

**Data for Construction of Distribution Diagrams for system:
B-T-X-100%Dmso+0%W at different temperatures
with Molecular weight of Aromatics as a parameter.**

20°C					
B - H - Dmso		T - H - Dmso 0%W		X - H - Dmso	
D1	D2	D1	D2	D1	D2
0.181	0.23	0.13	0.27	0.007	0.42
0.22	0.33	0.25	0.57	0.02	0.545
0.24	0.415	0.305	0.56	0.04	0.71
0.27	0.45	0.18	0.43	0.024	0.59
0.31	0.51	0.165	0.35	0.0295	0.675
0.23	0.36	0.218	0.5	0.026	0.645

30°C					
B - H - Dmso		T - H - Dmso 0%W		X - H - Dmso	
D1	D2	D1	D2	D1	D2
0.080	0.150	0.165	0.280	0.058	0.285
0.157	0.256	0.105	0.120	0.085	0.380
0.238	0.371	0.234	0.470	0.100	0.601
0.368	0.447	0.120	0.163	0.118	0.645
0.445	0.504	0.145	0.240	0.067	0.325
0.195	0.310	0.185	0.320	0.093	0.490
0.040	0.165				

40°C					
B - H - Dmso		T - H - Dmso 0%W		X - H - Dmso	
D1	D2	D1	D2	D1	D2
0.075	0.15	0.22	0.25	0.106	0.194
0.16	0.266	0.255	0.35	0.125	0.235
0.255	0.33	0.3	0.455	0.14	0.295
0.345	0.38	0.33	0.51	0.16	0.35
		0.233	0.308	0.192	0.475
		0.275	0.405	0.1825	0.41

Table. - D -25
Data for Construction of Distribution Diagrams for system:
B-T-X-90%Dmso+10%W at different temperatures
with Molecular weight of Aromatics as a parameter.

B - H -90% Dmso+10%W		20°C T - H - 90%D+10%W 10%W		X - H -90%D+10%W	
D1	D2	D1	D2	D1	D2
0.030	0.200	0.075	0.600	0.002	0.430
0.130	0.350	0.095	0.680	0.002	0.505
0.120	0.485	0.120	0.820	0.003	0.605
0.360	0.610	0.050	0.490	0.003	0.710
0.215	0.815	0.035	0.370	0.004	0.810
B - H -90% Dmso+10%w		30°C T - H - 90%D+10%w 10%W		X - H -90%D+10%w	
D1	D2	D1	D2	D1	D2
0.050	0.165	0.043	0.230	0.008	0.460
0.088	0.303	0.050	0.430	0.010	0.470
0.115	0.405	0.068	0.630	0.015	0.665
0.150	0.555	0.150	0.895	0.019	0.767
0.175	0.670	0.130	0.730	0.007	0.310
B - H -90% Dmso+10%w		40°C T - H - 90%D+10%w 10%W		X - H -90%D+10%w	
D1	D2	D1	D2	D1	D2
0.105	0.345	0.097	0.420	0.017	0.050
0.180	0.493	0.140	0.580	0.025	0.086
0.150	0.422	0.214	0.820	0.040	0.180
0.060	0.150	0.120	0.510	0.021	0.068
0.237	0.565	0.176	0.710	0.033	0.133

Table D-26
Data for Construction of Distribution Diagrams for system
B-H-80%Dms0+20%W at different temperatures
with Molecular weight of Aromatics as a parameter.

B-H-Dms0		T-H-Dms0 At 20%w		X-H-Dms0	
		20 °C			
D ₁	D ₂	D ₁	D ₂	D ₁	D ₂
0.010	0.243	0.010	0.290	0.001	0.490
0.020	0.475	0.020	0.650	0.001	0.645
0.050	0.770	0.022	0.695	0.002	0.790
0.065	0.890	0.035	0.840	0.003	0.900
		0.015	0.470	0.001	0.340
		At 20%w 30 °C			
D ₁	D ₂	D ₁	D ₂	D ₁	D ₂
0.004	0.135	0.008	0.230	0.002	0.315
0.008	0.257	0.015	0.440	0.003	0.542
0.017	0.465	0.020	0.660	0.004	0.740
0.022	0.672	0.025	0.840	0.002	0.444
0.012	0.360	0.011	0.340	0.003	0.656
		At 20%w 40 °C			
D ₁	D ₂	D ₁	D ₂	D ₁	D ₂
0.013	0.143	0.026	0.235	0.014	0.065
0.023	0.355	0.044	0.450	0.018	0.100
0.082	0.503	0.062	0.630	0.023	0.165
0.006	0.072	0.036	0.343	0.016	0.083
0.018	0.250			0.021	0.133

Table-D-27
Data for Construction of Distribution Diagrams for system
B-H-Hep-Oct-Dmf+W at different temperatures
with Molecular weight of Aliphatics as a parameter.

20 °C					
B-H-Dmf At 0%w		B-Hep-Dmf At 0%w		B-Oct-Dmf At 0%w	
D1	D2	D1	D2	D1	D2
0.025	0.25	0.02	0.022	0.039	0.04
0.080	0.37	0.03	0.037	0.095	0.1
0.100	0.36	0.05	0.078	0.11	0.18
0.127	0.41	0.04	0.057	0.18	0.236
0.170	0.45	0.045	0.067	0.201	0.29
				0.235	0.338
30 °C					
B-H-Dmf At 0%w		B-Hep-Dmf At 0%w		B-Oct-Dmf At 0%w	
D1	D2	D1	D2	D1	D2
0.05	0.015	0.125	0.153	0.127	0.12
0.08	0.042	0.055	0.045	0.165	0.145
0.10	0.080	0.09	0.08	0.19	0.208
0.042	0.018	0.02	0.01	0.212	0.25
0.02	0.010	0.038	0.027	0.235	0.298
0.06	0.042				
40 °C					
B-H-Dmf At 0%w		B-Hep-Dmf At 0%w		B-Oct-Dmf At 0%w	
D1	D2	D1	D2	D1	D2
0.105	0.052	0.03	0.02	0.095	0.075
0.140	0.125	0.05	0.03	0.108	0.083
0.160	0.130	0.08	0.042	0.174	0.145
0.122	0.088	0.09	0.05	0.192	0.16
0.097	0.075	0.13	0.065	0.24	0.24

Table. D-28
Data for Construction of Distribution Diagrams for system:
B-H-Hep-Oct-90%Dmf+10%W at different temperatures
with molecular weight of Aliphatics effect as a parameter.

20 °C					
B-H-Dmf At 10%w		B-Hep-Dmf At 10%w		B-Oct-Dmf At 10%w	
D1	D2	D1	D2	D1	D2
0.28	0.700	1.4	0.135	1.1	0.125
0.07	0.245	1.45	0.095	1.1	0.075
0.24	0.625	1.31	0.25	1.11	0.05
0.17	0.44	1.4	0.175	1.1	0.1
0.200	0.532	1.35	0.21	1.03	0.15

30 °C					
B-H-Dmf At 10%w		B-Hep-Dmf At 10%w		B-Oct-Dmf At 10%w	
D1	D2	D1	D2	D1	D2
0.05	0.265	0.14	0.241	0.075	0.167
0.19	0.467	0.195	0.425	0.128	0.258
0.24	0.697	0.305	0.512	0.178	0.344
0.027	0.135	0.167	0.333	0.274	0.497
0.452	0.753	0.25	0.468	0.32	0.585

40 °C					
B-H-Dmf At 10%w		B-Hep-Dmf At 10%w		B-Oct-Dmf At 10%w	
D1	D2	D1	D2	D1	D2
0.160	0.205	0.105	0.17	0.11	0.11
0.255	0.415	0.23	0.375	0.17	0.2
0.355	0.640	0.37	0.572	0.3	0.31
0.550	0.815	0.167	0.272	0.41	0.42
0.452	0.727	0.3	0.473	0.51	0.52

Table D-29
Data for Construction of Distribution Diagrams for system:
B-H-Hep-Oct-80%Dmf+20%W at different temperatures
with Molecular weight of Aliphatic as a parameter.

20 °C					
B-H-Dmf At 20%w		B-Hep-Dmf At 20%w		B-Oct-Dmf At 20%w	
D1	D2	D1	D2	D1	D2
0.020	0.200	-	-	0.088	0.445
0.060	0.435	-	-	0.021	0.15
0.110	0.600	-	-	0.037	0.25
0.290	0.450	-	-	0.14	0.64
0.200	0.785	-	-	0.22	0.75
30 °C					
B-H-Dmf At 20%w		B-Hep-Dmf At 20%w		B-Oct-Dmf At 20%w	
D1	D2	D1	D2	D1	D2
0.03	0.170	0.147	0.547	0.07	0.345
0.077	0.390	0.055	0.24	0.112	0.521
0.087	0.430	0.115	0.435	0.2	0.721
0.205	0.710	0.18	0.66	0.09	0.433
0.146	0.570	0.31	0.72	0.156	0.623
40 °C					
B-H-Dmf At 20%w		B-Hep-Dmf At 20%w		B-Oct-Dmf At 20%w	
D1	D2	D1	D2	D1	D2
0.02	0.31	0.005	0.38	0.05	0.118
0.04	0.51	0.23	0.65	0.075	0.203
0.06	0.66	0.34	0.8	0.125	0.319
0.09	0.78	0.152	0.515	0.14	0.364
		0.285	0.725	0.1	0.261

Table D-30
Data for Construction of Distribution Diagrams for tem: system:
B-H-Dmso+W at different temperatures oncentrations
with Molecular weight of Aliphatics as a parameter.

B-H-Dmso		At 0%w B-Hep-Dmso		B-Oct-Dmso	
20 °C		20°C		20	
D1	D2	D1	D2	D1	D2
0.180	0.230	0.120	0.230	0.010	0.190
0.220	0.330	0.179	0.300	0.028	0.293
0.240	0.415	0.140	0.275	0.060	0.420
0.060	0.450	0.206	0.427	0.016	0.435
0.310	0.510	0.239	0.490	0.032	0.530
				0.037	0.335
B-H-Dmso		B-Hep-Dmso		B-Oct-Dmso	
30 °C		30°C		30 °C	
D1	D2	D1	D2	D1	D2
0.208	0.250	0.130	0.280	0.030	0.310
0.200	0.380	0.167	0.315	0.160	0.373
0.296	0.470	0.185	0.360	0.560	0.315
0.475	0.790	0.210	0.430	0.230	0.450
		0.275	0.500	0.306	0.525
		0.310	0.525	0.010	0.235
B-H-Dmso		B-Hep-Dmso		B-Oct-Dmso	
40 °C		40°C		40 °C	
D1	D2	D1	D2	D1	D2
0.750	0.150	0.140	0.205	0.053	0.247
0.160	0.260	0.175	0.300	0.182	0.440
0.250	0.330	0.200	0.430	0.365	0.522
0.340	0.380	0.300	0.520	0.030	0.195
		0.260	0.470	0.015	0.315
		0.159	0.255	0.130	0.355

Table D-31
Data for Construction of Distribution Diagrams for m: system:
B-H-90%Dms0+10%W at different temperatures
with Molecular weight of Aliphatics as a parameter.

B-H-Dms0		At 10%w B-Hep-Dms0		B-Oct-Dms0	
20 °C		20 °C		20 °C	
D1	D2	D1	D2	D1	D2
0.300	0.200	0.05	0.15	0.050	0.495
0.130	0.350	0.61	0.26	0.085	0.590
0.120	0.480	0.11	0.37	0.170	0.670
0.360	0.610	0.17	0.48	0.340	0.780
0.510	0.810	0.25	0.59	0.067	0.540
		0.29	0.66		
		0.58	0.17		
B-H-Dms0		B-Hep-Dms0		B-Oct-Dms0	
30 °C		30 °C		30 °C	
D1	D2	D1	D2	D1	D2
0.050	0.165	0.058	0.175	0.200	0.275
0.087	0.302	0.110	0.322	0.115	0.520
0.115	0.405	0.160	0.425	0.300	0.665
0.150	0.555	0.200	0.605	0.400	0.800
0.175	0.670	0.230	0.681	0.207	0.592
0.100	0.360				
B-H-Dms0		B-Hep-Dms0		B-Oct-Dms0	
40 °C		40 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.105	0.345	0.055	0.075	0.017	0.186
0.180	0.495	0.090	0.165	0.194	0.565
0.150	0.422	0.185	0.405	0.070	0.365
0.060	0.150	0.305	0.667	0.043	0.272
0.237	0.565	0.245	0.536	0.132	0.465

Table D-32
Data for Construction of Distribution Diagrams for : system:
B-H-80%Dmso+20%W at different temperatures
with Molecular weight of Aliphatics as a parameter.

B-H-Dmso		At 20%w B-Hep-Dmso		B-Oct-Dmso	
20 °C		20 °C		20 °C	
D1	D2	D1	D2	D1	D2
0.200	0.475	0.022	0.070	0.041	0.760
0.010	0.245	0.040	0.200	0.011	0.570
0.050	0.770	0.052	0.300	0.028	0.710
0.065	0.890	0.065	0.445	0.055	0.810
		0.075	0.521	0.019	0.640
		0.058	0.370		
B-H-Dmso		At 20%w B-Hep-Dmso		B-Oct-Dmso	
30 °C		30 °C		30 °C	
D1	D2	D1	D2	D1	D2
0.004	0.135	0.020	0.062	0.013	0.430
0.006	0.257	0.040	0.170	0.030	0.550
0.017	0.465	0.070	0.280	0.045	0.640
0.022	0.672	0.110	0.458	0.085	0.850
0.012	0.360	0.160	0.637	0.021	0.490
B-H-Dmso		B-Hep-Dmso		B-Oct-Dmso	
40 °C		40 °C		40 °C	
D1	D2	D1	D2	D1	D2
0.013	0.143	0.009	0.126	0.020	0.420
0.023	0.355	0.050	0.080	0.030	0.540
0.092	0.503	0.080	0.190	0.100	0.710
0.006	0.072	0.150	0.390	0.070	0.830
0.018	0.250	0.210	0.570		
		0.180	0.480		

Table -S1
Data for Construction of Selectivity Diagrams for system:
B-H-Dmf-W at different temperature
with anti solvent concentrations as a parameter.

20 °C					
B-H-Dmf At 0%w		B-H-Dmf At 10%w		B-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.25	0.026	0.705	0.777	0.69	0.210
0.37	0.084	0.37	0.250	0.81	0.446
0.36	0.105	0.68	0.630	0.88	0.606
0.41	0.134	0.59	0.450	0.95	0.858
0.45	0.188	0.66	0.540	0.93	0.732

30 °C					
B-H-Dmf At 0%w		B-H-Dmf At 10%w		B-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.212	0.016	0.333	0.277	0.170	0.178
0.271	0.046	0.576	0.488	0.390	0.408
0.285	0.090	0.599	0.719	0.430	0.445
0.140	0.022	0.287	0.137	0.710	0.713
0.088	0.011	0.803	0.771	0.570	0.572
0.148	0.065				

40 °C					
B-H-Dmf At 0%w		B-H-Dmf At 10%w		B-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.238	0.056	0.744	0.211	0.462	0.320
0.247	0.142	0.680	0.441	0.614	0.520
0.260	0.156	0.724	0.665	0.713	0.672
0.253	0.097	0.887	0.840	0.744	0.784
0.239	0.981	0.797	0.753		

Table S2
Data for Construction of Selectivity Diagrams for system:
T-H-Dmf+W at different temperatures
with anti solvent concentrations as a parameters.

20 °C					
T-H-Dmf		T-H-Dmf		T-H-Dmf	
At 0%w		At 10%w		At 20%w	
S1	S2	S1	S2	S1	S2
0.413	0.096	-	-	0.660	0.282
0.450	0.185	-	-	0.800	0.453
0.369	0.227	-	-	0.876	0.670
0.400	0.198	-	-	0.909	0.815
0.410	0.140	-	-	0.862	0.562

30 °C					
T-H-Dmf		T-H-Dmf		T-H-Dmf	
At 0%w		At 10%w		At 20%w	
S1	S2	S1	S2	S1	S2
0.170	0.022	0.619	0.195	0.824	0.471
0.320	0.055	0.677	0.292	0.847	0.513
0.419	0.110	0.731	0.408	0.873	0.632
0.405	0.151	0.877	0.588	0.926	0.762
0.404	0.223	0.925	0.744	0.902	0.695

40 °C					
T-H-Dmf		T-H-Dmf		T-H-Dmf	
At 0%w		At 10%w		At 20%w	
S1	S2	S1	S2	S1	S2
0.307	0.106	0.800	0.587	0.568	0.243
0.277	0.083	0.885	0.743	0.816	0.476
0.230	0.047	0.962	0.868	0.943	0.813
0.254	0.070	0.687	0.344	0.714	0.381
0.314	0.090	0.865	0.675	0.888	0.639

Table -S3
Data for Construction of Selectivity Diagrams for system:
X-H-Dmf-W at different temperatures
with anti solvent concentrations as a parameter.

20 °C					
X-H-Dmf At 0%w		X-H-Dmf At 10%w		X-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.182	0.020	0.238	0.086	0.697	0.370
0.380	0.092	0.604	0.381	0.909	0.715
0.398	0.196	0.793	0.680	0.860	0.547
0.304	0.055	0.457	0.235	0.891	0.632
0.400	0.114	0.642	0.533	0.826	0.457
30 °C					
X-H-Dmf At 0%w		X-H-Dmf At 10%w		X-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.362	0.050	0.444	0.222	0.315	0.233
0.395	0.105	0.694	0.370	0.595	0.398
0.426	0.165	0.774	0.600	0.701	0.564
0.408	0.130	0.853	0.651	0.750	0.656
0.415	0.153	0.757	0.489	0.878	0.817
40 °C					
X-H-Dmf At 0%w		X-H-Dmf At 10%w		X-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
-	-	0.782	0.664	0.569	0.312
-	-	0.367	0.238	0.681	0.438
-	-	0.623	0.432	0.828	0.638
-	-	0.658	0.545	0.648	0.543
-	-	0.723	0.570	0.616	0.379

Table -S-4
Data for Construction of Selectivity Diagrams for system:
B-Hep-Dmf-W at different temperature with
anti solvent concentrations as a parameter.

B-Hep-Dmf 20 °C		At 0%w B-Hep-Dmf 30 °C		B-Hep-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.11	0.023	0.42	0.127	0.15	0.021
0.146	0.040	0.052	0.052	0.2	0.033
0.25	0.092	0.28	0.096	0.25	0.047
0.186	0.064	0.107	0.01	0.257	0.057
0.195	0.076	0.168	0.03	0.305	0.076

B-Hep-Dmf 20 °C		At 10%w B-Hep-Dmf 30 °C		B-Hep-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.627	0.342	0.564	0.253	0.495	0.185
0.508	0.202	0.582	0.438	0.664	0.401
0.754	0.572	0.67	0.53	0.77	0.59
0.685	0.481	0.572	0.345	0.61	0.295
0.721	0.532	0.632	0.48	0.722	0.498

B-Hep-Dmf 20 °C		At 20%w B-Hep-Dmf 30 °C		B-Hep-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
-	-	0.786	0.558	0.652	0.4
-	-	0.55	0.244	0.92	0.67
-	-	0.696	0.439	0.957	0.82
-	-	0.818	0.68	0.844	0.536
-	-	0.911	0.75	0.966	0.743

Table S -5
Data for Constraction of Distribution Diagrams for system:
B-Oct-Dmf-W at different anti solvent concentrations
with anti solvent concentrations as a parameter.

20 °C					
B-Oct-Dmf At 0%w		B-Oct-Dmf At 10%w		B-Oct-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.35	0.040	0.718	0.290	0.967	0.449
0.502	0.103	0.614	0.207	0.801	0.151
0.52	0.186	0.526	0.171	0.856	0.252
0.573	0.244	0.675	0.242	0.942	0.646
0.575	0.301	0.753	0.341	0.962	0.757
0.581	0.352				
30 °C					
B-Oct-Dmf At 0%w		B-Oct-Dmf At 10%w		B-Oct-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.508	0.124	0.557	0.169	0.736	0.348
0.539	0.15	0.646	0.261	0.797	0.526
0.552	0.217	0.702	0.349	0.863	0.727
0.539	0.264	0.774	0.505	0.764	0.43
0.573	0.318	0.8	0.595	0.838	0.62
40 °C					
B-Oct-Dmf At 0%w		B-Oct-Dmf At 10%w		B-Oct-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.441	0.077	0.687	0.114	0.549	0.121
0.324	0.086	0.708	0.208	0.646	0.209
0.52	0.151	0.769	0.326	0.844	0.329
0.719	0.167	0.82	0.446	0.891	0.377
0.533	0.258	0.894	0.556	0.769	0.27

Table-S6
Data for Construction of Selectivity Diagrams for system:
B-H-Dmso-W at different temperature
with anti solvent concentrations as a parameter.

20 °C					
B-H-Dmso At 0%w		B-H-Dmso At 10%w		B-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.723	0.257	0.938	0.357	0.99	0.484
0.758	0.335	0.929	0.497	0.98	0.248
0.774	0.425	0.960	0.853	0.998	0.785
0.818	0.463	0.000	0.656	0.996	0.898
0.862	0.525				
0.798	0.367				
30 °C					
B-H-Dmso At 0%w		B-H-Dmso At 10%w		B-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.591	0.259	0.909	0.167	0.976	0.259
0.510	0.387	0.921	0.307	0.890	0.466
0.681	0.487	0.927	0.410	0.950	0.676
0.824	0.814	0.937	0.560	0.956	
		0.945	0.683	0.923	0.365
		0.925	0.363		
40 °C					
B-H-Dmso At 0%w		B-H-Dmso At 10%w		B-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.652	0.158	0.840	0.349	0.928	0.145
0.800	0.274	0.818	0.500	0.950	0.358
0.773	0.344	0.882	0.426	0.989	0.506
1.000	0.392	0.751	0.151	0.928	0.072
		0.855	0.573	0.947	0.255

Table -S7
Data for Construction of Selectivity Diagrams for system:
T-H-Dmso-W at different temperature with anti solvent
concentrations as a parameter.

20 °C					
T-H-Dmso At 0%w		T-H-Dmso At 10%w		T-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.764	0.276	0.937	0.651	0.990	0.292
0.833	0.596	0.950	0.707	0.987	0.659
0.762	0.874	0.991	0.824	0.995	0.705
0.782	0.443	0.980	0.525	0.997	0.852
0.767	0.360	0.970	0.388	0.993	0.477
0.813	0.520				
30 °C					
T-H-Dmso At 0%w		T-H-Dmso At 10%w		T-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.804	0.285	0.741	0.237	0.714	0.234
0.677	0.124	0.769	0.649	0.833	0.448
0.921	0.489	0.838	0.438	0.904	0.673
0.705	0.164	0.882	0.847	0.972	0.848
0.783	0.244	0.861	0.748	0.775	0.341
0.822	0.333			0.945	0.973
40 °C					
T-H-Dmso At 0%w		T-H-Dmso At 10%w		T-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.714	0.255	0.926	0.442	0.872	0.241
0.757	0.353	0.964	0.633	0.955	0.468
0.729	0.472	0.979	0.823	0.990	0.656
0.726	0.537	0.857	0.542	0.980	0.838
0.756	0.314	0.926	0.793	0.905	0.925
0.775	0.414				

Table S-8
Data for Construction of Selectivity Diagrams for system:
X-H-Dmso+W at different temperatures
with anti solvent concentrations as a parameter.

X-H-Dmso At 0%w		X-H-Dmso At 10%w		X-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.269	0.428	0.157	0.448	0.125	0.503
0.508	0.557	0.173	0.616	0.178	0.662
0.666	0.732	0.210	0.638	0.210	0.809
0.600	0.607	0.245	0.747	0.285	0.916
0.606	0.700	0.307	0.845	0.142	0.348
0.590	0.662				

30 °C					
X-H-Dmso At 0%w		X-H-Dmso At 10%w		X-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.765	0.390	0.388	0.508	0.137	0.333
0.787	0.625	0.500	0.517	0.206	0.606
0.807	0.672	0.625	0.726	0.277	0.772
0.708	0.333	0.713	0.796	0.173	0.469
0.780	0.509	0.371	0.340	0.243	0.690

40 °C					
X-H-Dmso At 0%w		X-H-Dmso At 10%w		X-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.855	0.200	0.574	0.052	0.411	0.070
0.862	0.242	0.714	0.090	0.640	0.110
0.815	0.308	0.879	0.192	0.821	0.180
0.842	0.368	0.646	0.071	0.615	0.090
0.936	0.497	0.822	0.140	0.803	0.147
0.898	0.431				

Table -S-9
Data for Construction of Selectivity Diagrams for system:
B-Hep-Dmso-W at different temperature
with anti solvent concentrations as a parameter.

20 °C					
B-Hep-Dmso At 0%w		B-Hep-Dmso At 10%w		B-Hep-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.779	0.235	0.400	0.161	0.880	0.071
0.800	0.307	0.904	0.275	0.941	0.202
0.718	0.514	0.952	0.389	0.912	0.303
0.809	0.443	0.975	0.509	0.977	0.450
0.853	0.514	0.988	0.623	0.986	0.010
		0.991	0.702	0.975	0.377
30 °C					
B-Hep-Dmso At 0%w		B-Hep-Dmso At 10%w		B-Hep-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.590	0.288	0.874	0.182	0.800	0.066
0.773	0.323	0.932	0.334	0.888	0.180
0.789	0.377	0.962	0.439	0.933	0.286
0.792	0.447	0.972	0.623	0.956	0.416
0.811	0.567	0.980	0.699	0.969	0.650
0.837	0.610				
40 °C					
B-Hep-Dmso At 0%w		B-Hep-Dmso At 10%w		B-Hep-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.666	0.122	0.797	0.078	0.441	0.130
0.686	0.319	0.878	0.170	0.769	0.082
0.689	0.467	0.948	0.418	0.842	0.195
0.750	0.619	0.971	0.685	0.909	0.398
0.722	0.528	0.964	0.551	0.933	0.585
0.674	0.275			0.923	0.493

Table -S -10
Data for Construction of Selectivity Diagrams for system:
B-Oct-Dmso-W at different temperature
with anti solvent concentrations as a parameter.
20 °C

B-Oct-Dmso At 0%w		B-Oct-Dmso At 10%w		B-Oct-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.500	0.191	0.997	0.497	0.932	0.763
0.700	0.294	0.983	0.592	0.709	0.572
0.800	0.422	0.992	0.674	0.888	0.713
0.870	0.438	0.997	0.797	0.956	0.813
0.887	0.563	0.986	0.602	0.829	0.642
0.721	0.338				

B-Oct-Dmso At 0%w		B-Oct-Dmso At 10%w		B-Oct-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.612	0.314	0.909	0.277	0.962	0.432
0.857	0.379	0.987	0.523	0.986	0.552
0.696	0.319	0.997	0.670	0.993	0.642
0.879	0.458	0.998	0.730	0.997	0.715
0.874	0.535	0.995	0.597	0.977	0.492
0.357	0.237				

B-Oct-Dmso At 0%w		B-Oct-Dmso At 10%w		B-Oct-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.871	0.248	0.876	0.183	0.950	0.423
0.901	0.443	0.989	0.572	0.982	0.543
0.851	0.617	0.969	0.371	0.992	0.713
0.540	0.197	0.951	0.278	0.993	0.838
0.731	0.320	0.985	0.472		
0.812	0.361				

Table S11
Data for Construction of Selectivity Diagrams for system:
B-H-Dmf+W at different anti solvent concentrations
with temperatures as parameters.

B-H-Dmf 20 °C		At 0%w B-H-Dmf 30 °C		B-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.25	0.026	0.212	0.016	0.238	0.056
0.37	0.084	0.271	0.046	0.247	0.142
0.36	0.105	0.285	0.090	0.260	0.156
0.41	0.134	0.140	0.022	0.253	0.097
0.45	0.188	0.088	0.011	0.239	0.981
		0.148	0.065		

B-H-Dmf 20 °C		At 10%w B-H-Dmf 30 °C		B-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.705	0.777	0.333	0.277	0.744	0.211
0.37	0.250	0.576	0.488	0.680	0.441
0.68	0.630	0.599	0.719	0.724	0.665
0.59	0.450	0.287	0.137	0.887	0.840
0.66	0.540	0.803	0.771	0.797	0.753

B-H-Dmf 20 °C		At 20%w B-H-Dmf 30 °C		B-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.69	0.210	0.170	0.178	0.462	0.320
0.81	0.446	0.390	0.408	0.585	0.520
0.88	0.606	0.430	0.445	0.713	0.672
0.95	0.858	0.710	0.713	0.744	0.784
0.93	0.732	0.570	0.572		

Table. - S-12

Data for Construction of Selectivity Diagrams for system:
T-H-Dmf+W at different anti solvent concentrations
with temperatures as parameters

T-H-Dmf 20 °C		At 0%w T-H-Dmf 30 °C		T-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.413	0.096	0.17	0.022	0.307	0.106
0.45	0.185	0.32	0.055	0.277	0.083
0.369	0.227	0.419	0.11	0.23	0.047
0.4	0.198	0.405	0.151	0.254	0.07
0.41	0.14	0.404	0.223	0.314	0.09

T-H-Dmf 20 °C		At 10%w T-H-Dmf 30 °C		T-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
-	-	0.619	0.195	0.8	0.587
-	-	0.677	0.292	0.885	0.743
-	-	0.731	0.408	0.962	0.868
-	-	0.877	0.588	0.687	0.344
-	-	0.925	0.744	0.865	0.675

T-H-Dmf 20 °C		At 20%w T-H-Dmf 30 °C		T-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.66	0.282	0.824	0.471	0.568	0.243
0.8	0.453	0.847	0.513	0.816	0.476
0.876	0.67	0.873	0.632	0.943	0.813
0.909	0.815	0.926	0.762	0.714	0.381
0.862	0.562	0.902	0.695	0.888	0.639

Table S13
Data for Construction of Selectivity Diagrams for system:
X-H-Dmf+W at different anti solvent concentrations
with temperatures as parameters.

X-H-Dmf 20 °C		At 0%w X-H-Dmf 30 °C		X-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.182	0.020	0.362	0.050	-	-
0.380	0.092	0.395	0.105	-	-
0.398	0.196	0.426	0.165	-	-
0.304	0.055	0.408	0.130	-	-
0.400	0.114	0.415	0.153	-	-

X-H-Dmf 20 °C		At 10%w X-H-Dmf 30 °C		X-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.238	0.086	0.444	0.222	0.782	0.664
0.604	0.381	0.694	0.370	0.367	0.238
0.793	0.680	0.774	0.600	0.623	0.432
0.457	0.235	0.853	0.651	0.658	0.545
0.642	0.533	0.757	0.489	0.723	0.570

X-H-Dmf 20 °C		At 10%w X-H-Dmf 30 °C		X-H-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.697	0.370	0.315	0.233	0.569	0.312
0.909	0.715	0.595	0.398	0.681	0.438
0.860	0.547	0.701	0.564	0.828	0.638
0.891	0.632	0.750	0.656	0.648	0.543
0.826	0.457	0.878	0.817	0.616	0.379

Table S14
Data for Construction of Selectivity Diagrams for system:
B-Hep-Dmf+W at different anti solvent concentrations
with temperature as a parameter.

B-Hep-Dmf 20 °C		At 0%w B-Hep-Dmf 30 °C		B-Hep-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.11	0.023	0.42	0.127	0.15	0.021
0.146	0.040	0.052	0.052	0.2	0.033
0.25	0.092	0.28	0.096	0.25	0.047
0.186	0.064	0.107	0.01	0.257	0.057
0.195	0.076	0.168	0.03	0.305	0.076

B-Hep-Dmf 20 °C		At 10%w B-Hep-Dmf 30 °C		B-Hep-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
0.627	0.342	0.564	0.253	0.495	0.185
0.508	0.202	0.582	0.438	0.664	0.401
0.754	0.572	0.67	0.53	0.77	0.59
0.685	0.481	0.572	0.345	0.61	0.295
0.721	0.532	0.632	0.48	0.722	0.498

B-Hep-Dmf 20 °C		At 20%w B-Hep-Dmf 30 °C		B-Hep-Dmf 40 °C	
S1	S2	S1	S2	S1	S2
		0.786	0.558	0.652	0.4
		0.55	0.244	0.92	0.67
		0.696	0.439	0.957	0.82
		0.818	0.68	0.844	0.536
		0.911	0.75	0.966	0.743

Table S15
Selectivity for system: B-Oct-Dmf+W at different temperatures
with anti solvent concentrations as parameters.

20 °C					
B-Oct-Dmf		B-Oct-Dmf		B-Oct-Dmf	
At 0%w		At 10%w		At 20%w	
S1	S2	S1	S2	S1	S2
0.35	0.040	0.718	0.290	0.967	0.449
0.502	0.103	0.614	0.207	0.801	0.151
0.52	0.186	0.526	0.171	0.856	0.252
0.573	0.244	0.675	0.242	0.942	0.646
0.575	0.301	0.753	0.341	0.962	0.757
0.581	0.352				
30 °C					
B-Oct-Dmf		B-Oct-Dmf		B-Oct-Dmf	
At 0%w		At 10%w		At 20%w	
S1	S2	S1	S2	S1	S2
0.508	0.124	0.557	0.169	0.736	0.348
0.539	0.15	0.646	0.261	0.797	0.526
0.552	0.217	0.702	0.349	0.863	0.727
0.539	0.264	0.774	0.505	0.764	0.43
0.573	0.318	0.8	0.595	0.838	0.62
40 °C					
B-Oct-Dmf		B-Oct-Dmf		B-Oct-Dmf	
At 0%w		At 10%w		At 20%w	
S1	S2	S1	S2	S1	S2
0.441	0.077	0.687	0.114	0.549	0.121
0.324	0.086	0.708	0.208	0.646	0.209
0.52	0.151	0.769	0.326	0.844	0.329
0.719	0.167	0.82	0.446	0.891	0.377
0.533	0.258	0.894	0.556	0.769	0.27

Table - S-16
Data for Construction of Selectivity Diagrams for system:
B-H-Dmso-W at different temperatures
with temperature as a parameter.

B-H-Dmso 20 °C		At 0%w B-H-Dmso 30 °C		B-H-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.723	0.257	0.591	0.259	0.652	0.158
0.758	0.335	0.510	0.387	0.800	0.274
0.774	0.425	0.681	0.487	0.773	0.344
0.818	0.463	0.824	0.814	1.000	0.392
0.862	0.525				
0.798	0.367				

B-H-Dmso 20 °C		At 10%w B-H-Dmso 30 °C		B-H-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.938	0.357	0.909	0.167	0.840	0.349
0.929	0.497	0.921	0.307	0.818	0.500
0.960	0.853	0.927	0.410	0.882	0.426
0.000	0.656	0.937	0.560	0.751	0.151
		0.945	0.683	0.855	0.573
		0.925	0.363		

B-H-Dmso 20 °C		At 20%w B-H-Dmso 30 °C		B-H-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.99	0.484	0.889	0.259	0.928	0.145
0.98	0.248	0.944	0.466	0.950	0.358
0.998	0.785	0.917	0.676	0.989	0.506
0.996	0.898	0.800	0.136	0.928	0.072
		0.923	0.365	0.947	0.255

Table S17
Data for Construction of Selectivity Diagrams for system:
T-H-Dmso+W at different anti solvent
with temperatures as parameters.

T-H-Dmso 20 °C		At 0%w T-H-Dmso 30 °C		T-H-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.764	0.276	0.804	0.285	0.714	0.255
0.833	0.596	0.677	0.124	0.757	0.353
0.762	0.874	0.921	0.489	0.729	0.472
0.782	0.443	0.705	0.164	0.726	0.537
0.767	0.360	0.783	0.244	0.756	0.314
0.813	0.520	0.822	0.333	0.775	0.414

T-H-Dmso 20 °C		At 10%w T-H-Dmso 30 °C		T-H-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.937	0.651	0.741	0.237	0.926	0.442
0.950	0.707	0.769	0.649	0.964	0.633
0.991	0.824	0.838	0.438	0.979	0.823
0.980	0.525	0.882	0.847	0.857	0.542
0.970	0.388	0.861	0.748	0.926	0.793

T-H-Dmso 20 °C		At 20%w T-H-Dmso 30 °C		T-H-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.990	0.292	0.714	0.234	0.872	0.241
0.987	0.659	0.833	0.448	0.955	0.468
0.995	0.705	0.904	0.673	0.990	0.656
0.997	0.852	0.972	0.848	0.980	0.838
0.993	0.477	0.775	0.341	0.905	0.925
		0.945	0.973		

Table S18
Data for Construction of Selectivity Diagrams for system:
X-H-DmsO+W at different anti solvent
with temperatures as a parameter.

X-H-DmsO 20 °C		At 0%w X-H-DmsO 30 °C		X-H-DmsO 40 °C	
S1	S2	S1	S2	S1	S2
0.269	0.428	0.765	0.390	0.855	0.200
0.508	0.557	0.787	0.625	0.862	0.242
0.666	0.732	0.807	0.672	0.815	0.308
0.600	0.607	0.708	0.333	0.842	0.368
0.606	0.700	0.780	0.509	0.936	0.497
0.590	0.662			0.898	0.431

X-H-DmsO 20 °C		At 10%w X-H-DmsO 30 °C		X-H-DmsO 40 °C	
S1	S2	S1	S2	S1	S2
0.157	0.448	0.388	0.508	0.574	0.052
0.173	0.616	0.500	0.517	0.714	0.090
0.210	0.638	0.625	0.726	0.879	0.192
0.245	0.747	0.713	0.796	0.646	0.071
0.307	0.845	0.371	0.340	0.822	0.140

X-H-DmsO 20 °C		At 20%w X-H-DmsO 30 °C		X-H-DmsO 40 °C	
S1	S2	S1	S2	S1	S2
0.125	0.503	0.137	0.333	0.411	0.070
0.178	0.662	0.206	0.606	0.640	0.110
0.210	0.809	0.277	0.772	0.821	0.180
0.285	0.916	0.173	0.469	0.615	0.090
0.142	0.348	0.243	0.690	0.803	0.147

Table S-19
Data for Construction of Selectivity Diagrams for system:
B-Hep-Dmso+W at different anti solvent concentrations
with temperatures as parameters.

B-Hep-Dmso 20 °C		At 0%w B-Hep-Dmso 30 °C		B-Hep-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.779	0.235	0.590	0.288	0.666	0.122
0.800	0.307	0.773	0.323	0.686	0.319
		0.789	0.377	0.689	0.467
0.823	0.442	0.792	0.447	0.750	0.619
0.835	0.513	0.811	0.567	0.722	0.528
		0.837	0.610	0.674	0.275

B-Hep-Dmso 20 °C		At 10%w B-Hep-Dmso 30 °C		B-Hep-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.400	0.161	0.874	0.182	0.797	0.078
0.904	0.275	0.932	0.334	0.878	0.170
0.952	0.389	0.962	0.439	0.948	0.418
0.975	0.509	0.972	0.623	0.971	0.685
0.988	0.623	0.980	0.699	0.964	0.551
0.991	0.702				

B-Hep-Dmso 20 °C		-At 20%w B-Hep-Dmso 30 °C		B-Hep-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.880	0.071	0.800	0.066	0.441	0.130
0.941	0.202	0.888	0.180	0.769	0.082
0.912	0.303	0.933	0.286	0.842	0.195
0.977	0.450	0.956	0.416	0.909	0.398
0.986	0.010	0.969	0.650	0.933	0.585
0.975	0.377			0.923	0.493

Table- S-20
Data for Construction of Selectivity Diagrams for system:
B-Oct-Dmso+W at different anti solvent concentrations
with temperatures as a parameter.

B-Oct-Dmso 20 °C		At 0%w B-Oct-Dmso 30 °C		B-Oct-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.500	0.191	0.612	0.314	0.871	0.248
0.700	0.294	0.857	0.379	0.901	0.443
0.800	0.422	0.696	0.319	0.851	0.617
0.870	0.438	0.879	0.458	0.540	0.197
0.887	0.563	0.874	0.535	0.731	0.320
0.721	0.338	0.357	0.237	0.812	0.361

B-Oct-Dmso 20 °C		At 10%w B-Oct-Dmso 30 °C		B-Oct-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.997	0.497	0.909	0.277	0.876	0.183
0.983	0.592	0.987	0.523	0.989	0.572
0.992	0.674	0.997	0.670	0.969	0.371
0.997	0.797	0.998	0.730	0.951	0.278
0.986	0.602	0.995	0.597	0.985	0.472

B-Oct-Dmso 20 °C		At 20%w B-Oct-Dmso 30 °C		B-Oct-Dmso 40 °C	
S1	S2	S1	S2	S1	S2
0.932	0.763	0.962	0.432	0.050	0.423
0.709	0.572	0.986	0.552	0.982	0.543
0.888	0.713	0.993	0.642	0.992	0.713
0.956	0.813	0.997	0.715	0.993	0.838
0.829	0.642	0.977	0.492		

Table. - S -21
Data for Construction of Selectivity Diagrams for system:
B-T-X-Dmf+0%W at different temperatures
with Aromatics effect as a parameter.

20 °C					
B-H-Dmf At 0%w		T-H-Dmf At 0%w		X-H-Dmf At 0%w	
S1	S2	S1	S2	S1	S2
0.25	0.026	0.413	0.096	0.182	0.02
0.37	0.084	0.45	0.185	0.38	0.092
0.36	0.105	0.369	0.227	0.398	0.196
0.41	0.134	0.4	0.198	0.304	0.055
0.45	0.188	0.41	0.14	0.4	0.114
30 °C					
B-H-Dmf At 0%w		T-H-Dmf At 0%w		X-H-Dmf At 0%w	
S1	S2	S1	S2	S1	S2
0.212	0.016	0.17	0.022	0.362	0.05
0.271	0.046	0.32	0.055	0.395	0.105
0.285	0.090	0.419	0.11	0.426	0.165
0.140	0.022	0.405	0.151	0.408	0.13
0.088	0.011	0.404	0.223	0.415	0.153
0.148	0.065				
40 °C					
B-H-Dmf At 0%w		T-H-Dmf At 0%w		X-H-Dmf At 0%w	
S1	S2	S1	S2	S1	S2
0.238	0.056	0.307	0.106	-	-
0.247	0.142	0.277	0.083	-	-
0.260	0.156	0.23	0.047	-	-
0.253	0.097	0.254	0.07	-	-
0.239	0.981	0.314	0.09	-	-

Table. - S -22

Data for Construction of Selectivity Diagrams for system:
B-T-X-90%Dmf+10%W at different temperatures
with Aromatic effect as a parameter.

20 °C					
B-H-Dmf At 10%w		T-H-Dmf At 10%w		X-H-Dmf At 10%w	
S1	S2	S1	S2	S1	S2
0.705	0.777	-	-	0.082	0.238
0.37	0.25	-	-	0.365	0.604
0.68	0.63	-	-	0.66	0.793
0.59	0.45	-	-	0.223	0.457
0.66	0.54	-	-	0.512	0.642

30 °C					
B-H-Dmf At 10%w		T-H-Dmf At 10%w		X-H-Dmf At 10%w	
S1	S2	S1	S2	S1	S2
0.744	0.211	0.619	0.195	0.444	0.222
0.680	0.441	0.677	0.292	0.694	0.37
0.724	0.665	0.731	0.408	0.774	0.6
0.887	0.840	0.877	0.588	0.853	0.651
0.797	0.753	0.925	0.744	0.757	0.489

40 °C					
B-H-Dmf At 10%w		T-H-Dmf At 10%w		X-H-Dmf At 10%w	
S1	S2	S1	S2	S1	S2
0.744	0.211	0.8	0.587	0.782	0.664
0.68	0.441	0.885	0.743	0.367	0.238
0.724	0.665	0.962	0.868	0.623	0.432
0.887	0.84	0.687	0.344	0.658	0.545
0.797	0.753	0.865	0.675	0.723	0.57

Table. - S-23
Data for Construction of Selectivity Diagrams for system:
B-T-X-80%Dmf+20%W at different temperatures
with Aromatic effect as parameters.

20 °C					
B-H-Dmf At 20%w		T-H-Dmf At 20%w		X-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.69	0.21	0.66	0.282	0.697	0.37
0.81	0.446	0.8	0.453	0.909	0.715
0.88	0.606	0.876	0.67	0.86	0.547
0.95	0.858	0.909	0.815	0.891	0.632
0.93	0.732	0.862	0.562	0.826	0.457

30 °C					
B-H-Dmf At 20%w		T-H-Dmf At 20%w		X-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.17	0.178	0.824	0.471	0.315	0.233
0.39	0.408	0.847	0.513	0.595	0.398
0.43	0.445	0.873	0.632	0.701	0.564
0.71	0.713	0.926	0.762	0.75	0.656
0.57	0.572	0.902	0.695	0.878	0.817

40 °C					
B-H-Dmf At 20%w		T-H-Dmf At 20%w		X-H-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.462	0.320	0.568	0.243	0.569	0.312
0.614	0.520	0.816	0.476	0.681	0.438
0.713	0.672	0.943	0.813	0.828	0.638
0.744	0.784	0.714	0.381	0.648	0.543
		0.888	0.639	0.616	0.379

Table. - S -24
Data for Construction of Selectivity Diagrams for system:
: B-T-X-Dmso+0%W at different temperatures
with Aromatic effect as parameters.

20 °C					
B-H-Dmso At 0%w		T-H-Dmso At 0%w		X-H-Dmso At 0%w	
S1	S2	S1	S2	S1	S2
0.758	0.335	0.764	0.276	0.269	0.305
0.774	0.425	0.232	0.541	0.508	0.428
0.607	0.072	0.782	0.596	0.6	0.557
0.818	0.463	0.813	0.443	0.59	0.662
0.862	0.525	0.833	0.36	0.606	0.732
0.798	0.367	0.762	0.874	0.666	0.607
0.723	0.257	0.166	0.52	0.37	0.7
30 °C					
B-H-Dmso At 0%w		T-H-Dmso At 0%w		X-H-Dmso At 0%w	
S1	S2	S1	S2	S1	S2
0.8	0.154	0.677	0.285	0.705	0.292
0.765	0.259	0.921	0.124	0.708	0.39
0.785	0.38	0.804	0.244	0.765	0.625
0.821	0.483	0.705	0.5	0.787	0.67
0.731	0.597	0.783	0.548	0.807	0.78
		0.822	0.333	0.49	
40 °C					
B-H-Dmso At 0%w		T-H-Dmso At 0%w		X-H-Dmso At 0%w	
S1	S2	S1	S2	S1	S2
0.652	0.157	0.714	0.255	0.855	0.0364
0.772	0.343	0.757	0.314	0.862	0.2
0.721	0.157	0.759	0.472	0.815	0.242
0.8	0.274	0.726	0.539	0.842	0.368
		0.756	0.353	0.936	0.497
		0.775	0.414	0.898	0.308

Table. - S -25
Data for Construction of Selectivity Diagrams for system:
B-T-X-90%Dms0+10%W at different temperatures
with Aromatic effect as parameters

20 °C					
B-H-Dms0 At 10%w		T-H-Dms0 At 10%w		X-H-Dms0 At 10%w	
S1	S2	S1	S2	S1	S2
0.75	0.204	0.937	0.164	0.094	0.45
0.928	0.357	0.937	0.65	0.173	0.616
0.979	0.497	0.956	0.707	0.21	0.638
0.972	0.655	0.991	0.824	0.245	0.747
				0.307	0.845
30 °C					
B-H-Dms0 At 10%w		T-H-Dms0 At 10%w		X-H-Dms0 At 10%w	
S1	S2	S1	S2	S1	S2
0.909	0.167	0.769	0.237	0.388	0.508
0.921	0.307	0.876	0.649	0.5	0.517
0.927	0.41	0.838	0.438	0.625	0.726
0.937	0.56	0.861	0.847	0.713	0.796
0.945	0.683				
40 °C					
B-H-Dms0 At 10%w		T-H-Dms0 At 10%w		X-H-Dms0 At 10%w	
S1	S2	S1	S2	S1	S2
0.855	0.349	0.43	0.253	0.574	0.052
0.912	0.5	0.926	0.442	0.714	0.09
0.75	0.21	0.971	0.633	0.879	0.192
0.884	0.573	0.979	0.823		

Table. - S -26
Data for Construction of Selectivity Diagrams for system:
: B-T-X-80%Dmso+20%W at different temperatures
with Aromatic effect as parameters.

20 °C					
B-H-Dmso At 20%w		T-H-Dmso At 20%w		X-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.99	0.484	0.99	0.292	0.125	0.503
0.98	0.248	0.987	0.659	0.142	0.662
0.996	0.785	0.996	0.705	0.21	0.809
0.996	0.898	0.997	0.852	0.285	0.916

30 °C					
B-H-Dmso At 20%w		T-H-Dmso At 20%w		X-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.89	0.259	0.775	0.234	0.137	0.333
0.95	0.466	0.833	0.448	0.206	0.606
0.956	0.676	0.904	0.673	0.277	0.772
0.97	0.866	0.98	0.848		

40 °C					
B-H-Dmso At 20%w		T-H-Dmso At 20%w		X-H-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.857	0.145	0.905	0.241	0.2	0.07
0.95	0.358	0.955	0.468	0.67	0.11
0.989	0.506	0.981	0.656	0.88	0.18
		0.99	0.838		

5-
Table 27

Selectivity for system: B-H-Hep-Oct-Dmf+W at different temperatures with Aliphatic effect as parameters.

20 °C					
B-H-Dmf At 0%w		B-Hep-Dmf At 0%w		B-Oct-Dmf At 0%w	
S1	S2	S1	S2	S1	S2
0.25	0.026	0.11	0.023	0.35	0.04
0.37	0.084	0.146	0.04	0.502	0.103
0.36	0.105	0.25	0.092	0.52	0.186
0.41	0.134	0.186	0.064	0.573	0.244
0.45	0.188	0.195	0.076	0.575	0.301
				0.581	0.352
30 °C					
B-H-Dmf At 0%w		B-Hep-Dmf At 0%w		B-Oct-Dmf At 0%w	
S1	S2	S1	S2	S1	S2
0.212	0.016	0.42	0.127	0.508	0.124
0.271	0.046	0.052	0.052	0.539	0.15
0.285	0.090	0.28	0.096	0.552	0.217
0.140	0.022	0.107	0.01	0.539	0.264
0.088	0.011	0.168	0.03	0.573	0.318
0.148	0.065				
40 °C					
B-H-Dmf At 0%w		B-Hep-Dmf At 0%w		B-Oct-Dmf At 0%w	
S1	S2	S1	S2	S1	S2
0.238	0.056	0.15	0.021	0.441	0.077
0.247	0.142	0.2	0.033	0.324	0.086
0.260	0.156	0.25	0.047	0.52	0.151
0.253	0.097	0.257	0.057	0.719	0.167
0.239	0.981	0.305	0.076	0.533	0.258

Table. - S-28
Data for Construction of Distribution Diagrams for system
B-H-Hep-Oct-Dmf+10%W at different temperatures

B-H-Dmf At 10%w		20 °C B-Hep-Dmf At 10%w		B-Oct-Dmf At 10%w	
S1	S2	S1	S2	S1	S2
0.705	0.777	0.337	0.627	0.718	0.29
0.37	0.250	0.2	0.508	0.614	0.207
0.68	0.630	0.565	0.754	0.526	0.171
0.59	0.450	0.475	0.685	0.675	0.242
0.66	0.540	0.525	0.721	0.753	0.341
B-H-Dmf At 10%w		30 °C B-Hep-Dmf At 10%w		B-Oct-Dmf At 10%w	
S1	S2	S1	S2	S1	S2
0.333	0.277	0.564	0.253	0.557	0.169
0.576	0.488	0.582	0.438	0.646	0.261
0.599	0.719	0.67	0.53	0.702	0.349
0.287	0.137	0.572	0.345	0.774	0.505
0.803	0.771	0.632	0.48	0.8	0.595
B-H-Dmf At 10%w		40 °C B-Hep-Dmf At 10%w		B-Oct-Dmf At 10%w	
S1	S2	S1	S2	S1	S2
0.744	0.211	0.495	0.185	0.687	0.114
0.680	0.441	0.664	0.401	0.708	0.208
0.724	0.665	0.77	0.59	0.769	0.326
0.887	0.840	0.61	0.295	0.82	0.446
0.797	0.753	0.722	0.498	0.894	0.556



Table. - S-29
Data for Construction of Selectivity Diagrams for system:
B-H-Hep-Oct-80%Dmf+20%W at different temperatures
with molecular weight of Aliphatics as a parameter

20 °C					
B-H-Dmf At 20%w		B-Hep-Dmf At 20%w		B-Oct-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.69	0.210	-	-	0.967	0.449
0.81	0.446	-	-	0.801	0.151
0.88	0.606	-	-	0.856	0.252
0.95	0.858	-	-	0.942	0.646
0.93	0.732	-	-	0.962	0.757
30 °C					
B-H-Dmf At 20%w		B-Hep-Dmf At 20%w		B-Oct-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.170	0.178	0.786	0.558	0.736	0.348
0.390	0.408	0.55	0.244	0.797	0.526
0.430	0.445	0.696	0.439	0.863	0.727
0.710	0.713	0.818	0.68	0.764	0.43
0.570	0.572	0.911	0.75	0.838	0.62
40 °C					
B-H-Dmf At 20%w		B-Hep-Dmf At 20%w		B-Oct-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.462	0.32	0.652	0.4	0.549	0.121
0.614	0.52	0.92	0.67	0.646	0.209
0.713	0.672	0.957	0.82	0.844	0.329
0.744	0.784	0.844	0.536	0.891	0.377
		0.966	0.743	0.769	0.27

Table. - S-30

Data for Construction of Selectivity Diagrams for system:
: B-H-Hep-Oct-100%Dmso+0%W at different temperatures
with molecular weight of Aliphatics as a parameter

20 °C					
B-H-Dmso At 0%w		B-Hep-Dmso At 0%w		B-Oct-Dmso At 0%w	
S1	S2	S1	S2	S1	S2
0.723	0.257	0.694	0.107	0.500	0.191
0.758	0.335	0.779	0.235	0.700	0.295
0.774	0.425	0.8	0.307	0.842	0.423
0.607	0.072	0.823	0.442	0.856	0.438
0.818	0.536	0.835	0.513	0.887	0.564
0.8	0.154	0.545	0.181	0.721	0.339
30 °C					
B-H-Dmso At 0%w		B-Hep-Dmso At 0%w		B-Oct-Dmso At 0%w	
S1	S2	S1	S2	S1	S2
0.765	0.259	0.590	0.288	0.857	0.379
0.785	0.380	0.713	0.323	0.876	0.432
0.821	0.483	0.782	0.377	0.867	0.458
0.731	0.597	0.792	0.447		
		0.837	0.610		
		0.811	0.567		
40 °C					
B-H-Dmso At 0%w		B-Hep-Dmso At 0%w		B-Oct-Dmso At 0%w	
S1	S2	S1	S2	S1	S2
0.652	0.274	0.666	0.220	0.540	0.197
0.772	0.350	0.674	0.275	0.871	0.248
0.721	0.157	0.686	0.319	0.731	0.320
0.800	0.343	0.689	0.467	0.812	0.360
		0.750	0.619	0.901	0.443
		0.722	0.528	0.856	0.418
				0.851	0.617
				0.873	0.428

Table. - S -31
Data for Construction of Selectivity Diagrams for system:
B-H-Hep-Oct-90%Dmso+10%W at different temperatures
with molecular weight of Aliphatics as a parameter

20 °C					
B-H-Dmso At 10%w		B-Hep-Dmso At 10%w		B-Oct-Dmso At 10%w	
S1	S2	S1	S2	S1	S2
0.75	0.204	0.4	0.161	0.769	0.497
0.928	0.357	0.903	0.275	0.983	0.592
0.979	0.497	0.951	0.389	0.992	0.674
0.972	0.655	0.975	0.506	0.994	0.797
		0.991	0.702		
30 °C					
B-H-Dmso At 10%w		B-Hep-Dmso At 10%w		B-Oct-Dmso At 10%w	
S1	S2	S1	S2	S1	S2
0.909	0.167	0.874	0.182	0.909	0.21
0.921	0.307	0.932	0.334	0.994	0.523
0.927	0.41	0.962	0.439	0.997	0.67
0.937	0.56	0.972	0.623	0.998	0.811
0.945	0.683	0.98	0.699		
40 °C					
B-H-Dmso At 10%w		B-Hep-Dmso At 10%w		B-Oct-Dmso At 10%w	
S1	S2	S1	S2	S1	S2
0.855	0.349	0.781	0.078	0.806	0.183
0.912	0.5	0.878	0.17	0.872	0.371
0.75	0.21	0.948	0.418	0.923	0.572
0.884	0.573	0.959	0.685	0.985	0.781

Table. - S -32
Data for Construction of Selectivity Diagrams for system:
: B-H-Hep-Oct-80%Dmso+20%W at different temperatures
with molecular weight of Aliphatics as a parameter

20 °C					
B-H-Dmso At 20%w		B-Hep-Dmso At 20%w		B-Oct-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.99	0.484	0.875	0.05	0.051	0.406
0.98	0.248	0.946	0.091	0.769	0.572
0.996	0.785	0.985	0.132	0.909	0.713
0.996	0.898			0.956	0.813
30 °C					
B-H-Dmso At 20%w		B-Hep-Dmso At 20%w		B-Oct-Dmso At 20%w	
S1	S2	S1	S2	S1	S2
0.89	0.259	0.886	0.063	0.909	0.432
0.95	0.466	0.8	0.066	0.986	0.552
0.956	0.676	0.933	0.286	0.995	0.642
0.97	0.866			0.997	0.856
40 °C					
B-H-Dmf At 20%w		B-Hep-Dmf At 20%w		B-Oct-Dmf At 20%w	
S1	S2	S1	S2	S1	S2
0.857	0.145	0.769	0.082	0.8	0.425
0.95	0.358	0.869	0.195	0.909	0.545
0.989	0.506	0.909	0.398	0.99	0.713
		0.933	0.585	0.998	0.856